

ATLAS EASTERN MIDDLE ANTHRACITE FIELD, PART 3.

Containing thirteen sheets Eight mine sheets; two columnar section sheets, and three cross section sheets, relating to portions of the Lehigh Basins in the vicinity of Beaver Meadow, Hazleton, Gowen, Audenried, McCauley Mountain, &c.

Table of Contents.

8 MINE SHEETS, scale 800 feet to 1 inch, $\frac{1}{9600}$ of nature, showing the surface features and colliery workings.

1. No. II a, XI a, XIII a. BLACK CREEK SHEET. From Rock Glen eastward along the northern side of the basin, and showing Sugar Loaf Mountain.
2. No. IX. SILVER BROOK SHEET. Showing the western portions of basins 1 and 2, the whole of basin 3, and the eastern ends of Shenandoah and Mahanoy Basins.
3. No. X. HONEY BROOK SHEET. Showing eastern portions of Green Mountain Basins 3 and 5; west end of Honey Brook Basin, Audenried; and Spring Mountain Basin,
4. No. XI. TOMHICKEN SHEET. Showing the vicinity of Tomhicken, Black Ridge, Humboldt and Mt. Pleasant; with the Stony Creek Basin.
5. No. XII, XII a. GREEN MOUNTAIN SHEET. Showing Basins 1, 2, 3, 4; and Slabtown in Catawissa Valley.
6. No. XIII. DERINGER SHEET. Gowen; Deringer; New London; Little Sugar Loaf Basin; and north edge of Green Mountain Basin 5.
7. No. XIV. McCAULEY MOUNTAIN SHEET. Showing the basin; and including West Buck Mountain.
8. No. XIV a, VIII a. GOWEN SHEET. Silver Brook Basins; west end of Gowen Workings on Roberts' Run:

2 COLUMNAR SECTION SHEETS, containing 50 columnar sections, showing the coal measures cut in tunnels and bore-holes. Scale, 40 feet to 1 inch, $\frac{1}{480}$ of nature, viz:

9. No. VI. Twenty-five sections at Beaver Meadow, Dreck Creek, Spring Mountain, Audenried, Mt. Pleasant, Oneida, and Tomhicken.
10. No. VII. Twenty-five sections at Tomhicken, Deringer, Gowen, Falls Run, and Glen City.

3 CROSS SECTION SHEETS, containing twenty-one sections, across the Lehigh Basins at various places, on a scale of 400 feet to 1 inch, vertical and horizontal the same.

11. No. IV. Eight sections across the Upper Lehigh, Pond Creek, Cross Creek, Black Creek, Hazleton, Beaver Meadow, and Dreck Creek Basins; with a skeleton map showing the location of each section line.
12. No. V. Six sections across Spring Mountain, Beaver Meadow, Tresckow, Honey Brook, Jeansville, Dreck Creek and Hazleton basins; with skeleton map.
13. No. VI. Seven sections across Green Mountain, Black Creek, Roberts' Run, and McCauley Mountain Basins; with a skeleton map.

THIS SECTION SHOWS THE PROPOSED FIELD. PART A COLUMN SECTION SHEET NO. 1. 5

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GEOLOGICAL SURVEY OF PENNSYLVANIA. J.P. LESLEY, STATE GEOLOGIST
LESLIE A. ASHBURNER, GEOLOGIST IN CHARGE

WESTERN MIDDLE COAL FIELD MINE SHEET No. VII

SECTION OF COAL MEASURES
BEAR VALLEY SHEET

Coal Bed No. XVI

Coal Bed No. XIV

Coal Bed No. XIII

Orchard Bed No. XII

Primrose Bed No. XI

Holmes Bed No. X

Middle Member of Mammoth Bed No. IX

Lower Member of Mammoth Bed

Skidmore Bed No. VII

Sevenfoot Bed No. VI

Buck Mountain Bed No. V

Coal Bed No. IV

Lakens Valley Bed No. III

Scale 100' = 1"

NOTES

- 1 The North and South Meridians East and West Parallel
- 2 All Material printed in red refers to the Bottom Member of the Mammoth bed
- 3 The mine workings in the Upper Member of the Mammoth bed are shown by green lines
- 4 The mine workings in the bed underlying the Mammoth bed are shown by blue lines
- 5 The mine workings in beds overlying the Mammoth bed are shown by orange lines
- 6 With the exception of tunnels and faults the black print relates to the surface features only

- No. XIII or Little Orchard bed
XII Orchard bed
XI Primrose bed
X Holmes bed
IX Upper Member of Mammoth bed
VIII Lower Member of Mammoth bed
VII Skidmore bed
VI Sevenfoot bed
V Buck Mtn bed

This map was constructed from the Philadelphia & Reading Fuel & Iron Co. A. G. L. & Co. and Genl. & Survey

- Lines are drawn 2000 feet apart
The Mammoth coal bed the contour of the Bottom Member
bed are shown by green lines
are shown by blue lines
are shown by orange lines
relates to the surface features only

- Property lines
Towns and lots
Shafts & Coal Trestle Shafts
Slopes in color of bed
Faults
Air holes
Drifts
Buildings

Contours of the A. H. Survey

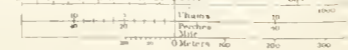
Geological details in between contour lines are those of the bottom member of the Mammoth coal bed

Scale 100' = 1"

- Area of Workable Coal Beds
Pottsville Conglomerate No. XII
Mauch Chunk Red Shale No. XI

ASSISTANT GEOLOGIST BARD WELLS, to Sept. 1885
ASSISTANT H. N. SIMS, June

JULIUS BIEN & CO. LITH.



Scale—500 Feet to an Inch
OCTOBER 1886

ERS. STATE PRINTER

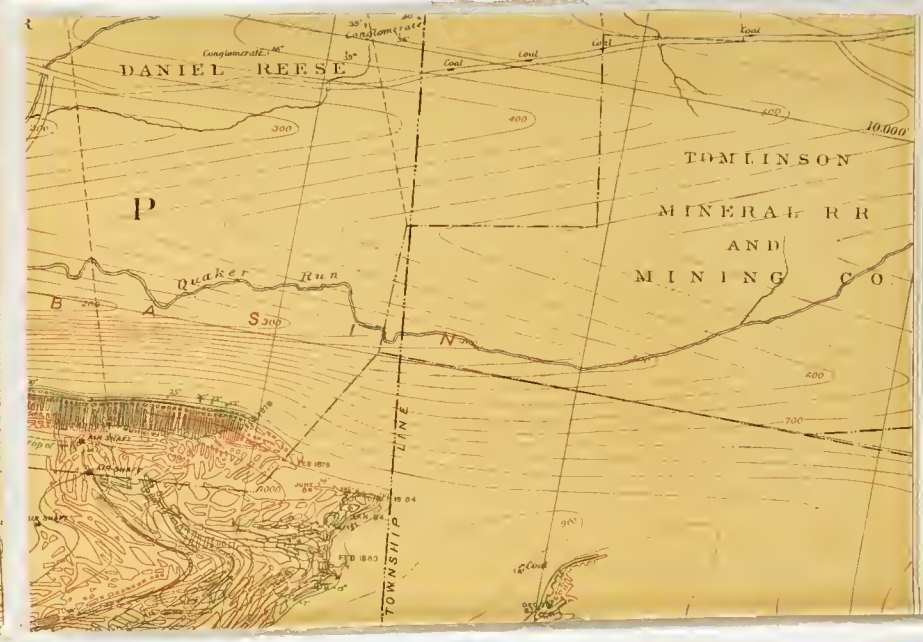
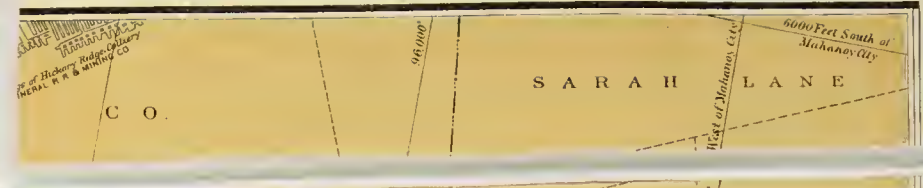
Bear Valley shaft 3.7 Miles south of Mahanoy City
Latitude Mahanoy City (Center and Main Streets computed): 40° 45' 43"
Longitude " " " " " east of Washington 75° 54' 18"

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Figure 1 consists of two scatter plots. The top plot shows a positive correlation between the number of children and the number of children in the household. The bottom plot shows a negative correlation between the number of children and the number of children in the household.



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SECTION OF COAL MEASURES
MT CARMEL SHEET.
PENNSYLVANIA, HELFENSTEIN
AND
GORDON COLLIERIES.

PENNSYLVANIA COLLIERY UNION COAL COMPANY

THROUGH HELFENSTEIN SLOPE (P & R. C. & I. CO.)

GORDON COLLIERY TUNNEL.

Scale 100'-1

NOTE
This section is probably not representative of the coal measures over the entire sheet. Bore hole records show the coal beds below the Mammoth to be much thinner on the eastern portion of sheet.

700 1700
COMPROMISE LINE BETWEEN THE MINERAL
AND THE PHILADELPHIA & READING C

[illegible]

NOTES

- 1 The North and South Meridion and East and West Parallel lines are drawn 2000 feet apart.
- 2 On account of insufficient facts the identification of the supposed three members of Mammoth Club bed in some cases on this sheet, particularly in the Mahogany Basin in the East of Louisa Gap, has not been definitely determined. The identity of these three members as of Louisa Gap is explained in notes No. 10 and 11.
- 3 All material present in red refers to the Bottom Member of the Mammoth bed. The contour are drawn 50 feet vertically apart on the floor of the Bottom Member.
- 4 The same workings in an Upper Member of the Mammoth bed are shown by green lines.
- 5 The same workings in a supposed Third Member (Top?) of the Mammoth bed at the Merriam are shown by brown lines.

— Merriam colliery	— Holmes bed ?	SS Shale
—	—	Silt
— Mt Carmel "	— Mammoth bed	o Air
—	—	o Drift
—	— Skidmore bed ?	o Building
—	— Lykens Valley bed	

This map was constructed from the surveys of the

Philadelphia and Reading Coal and Iron Co	P. W. Shearer Engineer of Mines
Lancast Mountain Coal and Iron Co	W. S. Shearer " "
Mineral Railroad and Mining Co	Arthur N. Sessler " "
Coal Field Improvement Co	A. H. Gehman, C. E. & M. E.
S. M. Bailey M. E.	Edwin Bickel
L. A. Riley	Thomas M. Richter

Second Geological Survey

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Monitor Colliery & Lignite Co.

Philadelphia and Reading Railroad

Contour Lines

Scale: 1" = 200'

Horizontal distances between Contour Lines corresponded to the top of the bottom member of the Manuville Coal Bed in Degrees

Scale: 1" = 200'

This is a historical map of the New York State Canal system, showing the Erie Canal and the Oswego Canal. The map is oriented with North at the top. Key features include:

- Canals:** The Erie Canal runs horizontally across the middle, and the Oswego Canal branches off to the right. Both are depicted with hatched areas representing the canal beds.
- Topography:** The map shows the surrounding terrain with contour lines and labels for 'H L A N' (Hudson River) and 'E S T A T E' (Erie State).
- Infrastructure:** A 'Summit RR Station' is marked on the left side, and a 'Tide Level' scale is provided on the right, ranging from 0.00 to 16.00.
- Labels:** Various letters and numbers are scattered across the map, including 'S T D A', 'P & K', 'H C S I', 'C S', and 'N'.

A historical map of the Cambridge area, showing the city layout, surrounding roads, and geographical features. The map is oriented with North at the top. The city of Cambridge is shown in the center, with the River Cam flowing through it. The map includes labels for various locations, such as 'Cambridge', 'Newmarket', 'Ipswich', and 'Suffolk'. It also shows the 'Great Ouse' and 'Little Ouse' rivers. The map is drawn on a grid of latitude and longitude lines. The title 'CAMBRIDGE' is written in large, bold letters across the middle of the map. The date '1800' is written in the bottom right corner.

A historical map of the Pottsville area, showing the Pottsville Conglomerate, the Pottsville Colliery, and the Pottsville Station. The map includes a grid system with letters A through H and numbers 1 through 12. The Pottsville Conglomerate is shown as a large, irregularly shaped area in the center. The Pottsville Colliery is located to the west of the conglomerate. The Pottsville Station is located to the east of the conglomerate. The map also shows the Pottsville River and the Pottsville Road. The map is titled 'POTTSTVILLE CONGLOMERATE' and 'POTTSTVILLE STATION'.

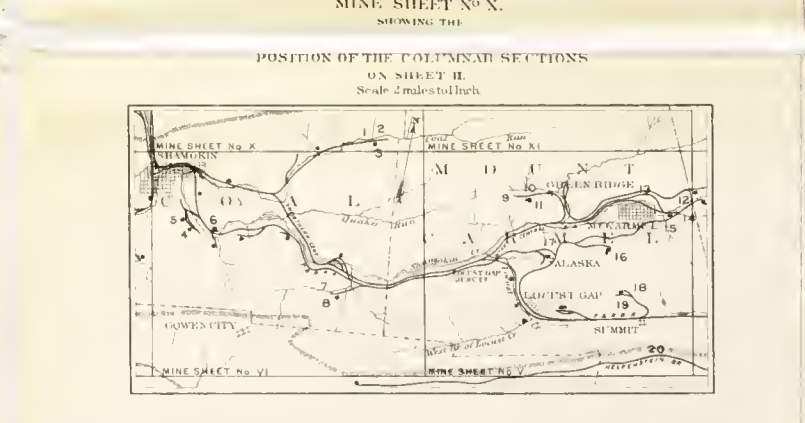
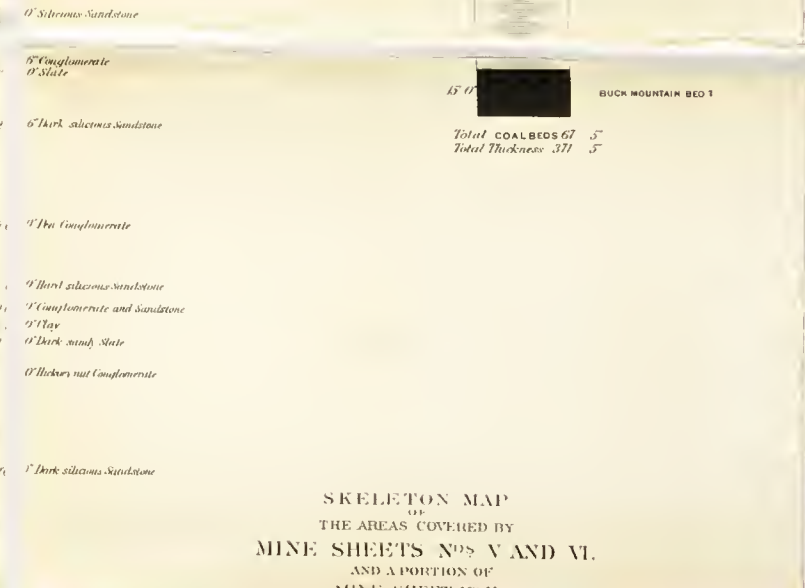
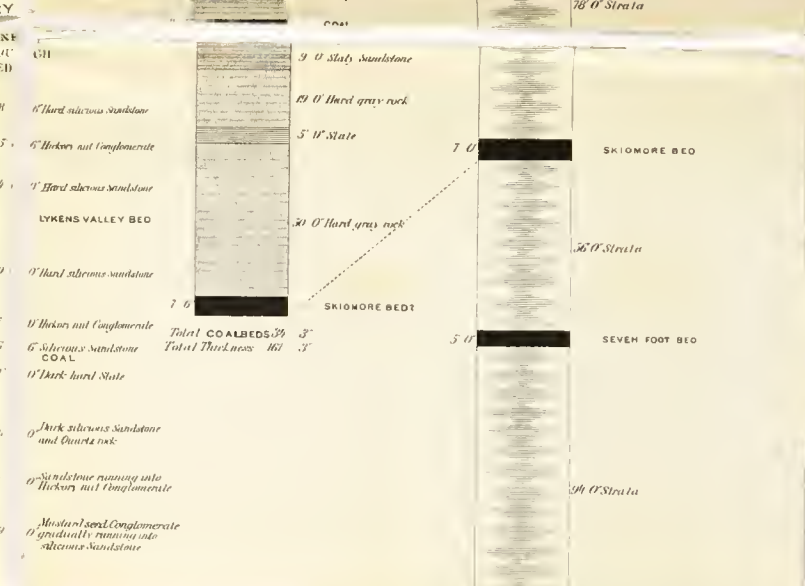
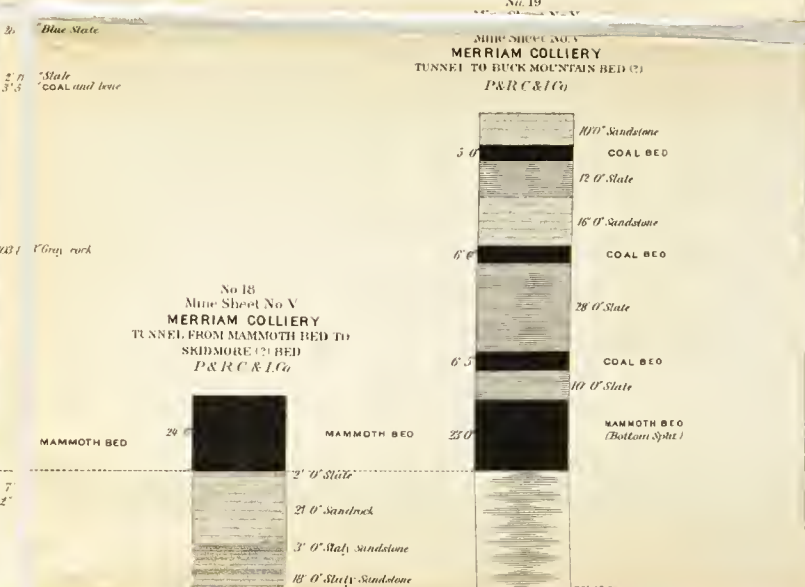
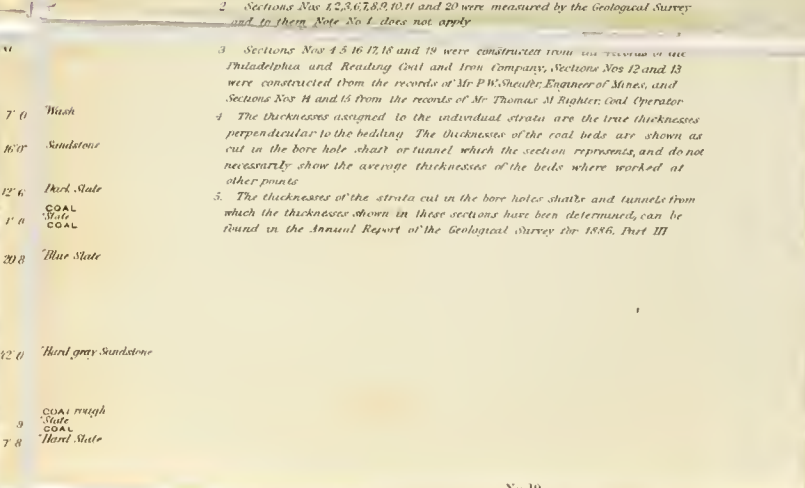
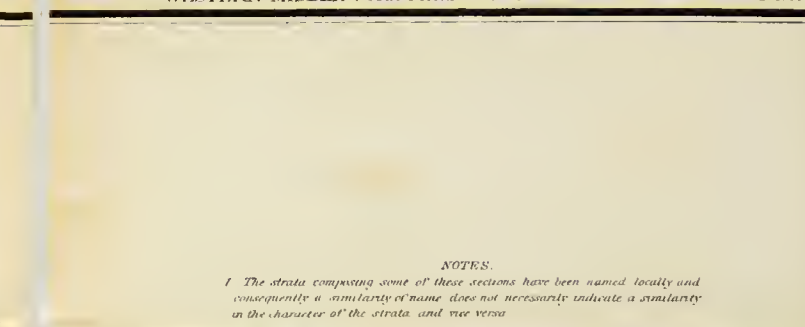
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This geological map depicts the Pottsville and Mauch Chunk regions. Key features include:

- Geological Formations:** Pottsville Conglomerate, Mauch Chunk Bed Shale, and various other rock units.
- Structures:** Mauch Chunk Tunnel, Franklin Colliery, and several faults (e.g., Pottsville Fault, Mauch Chunk Fault).
- Infrastructure:** Railroads (e.g., Pottsville and Mauch Chunk R.R.) and roads.
- Topography:** Contour lines indicating elevation.
- Scale:** A scale bar at the bottom indicates distances from 0 to 2000 feet.

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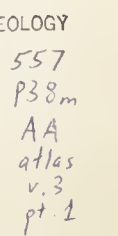
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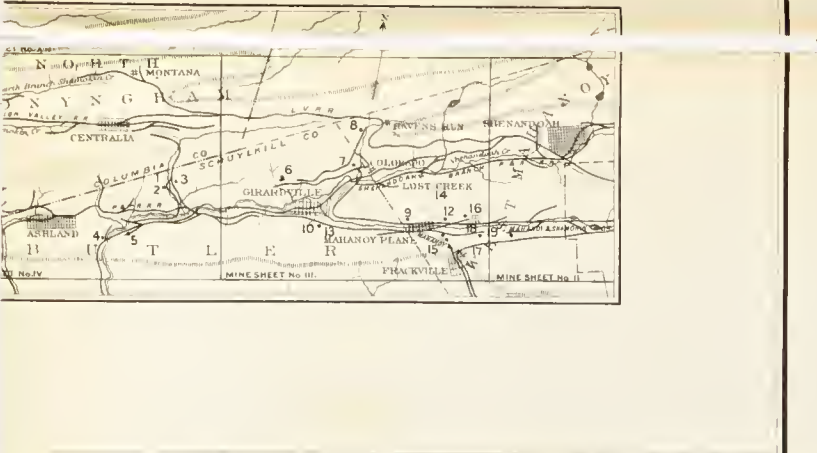
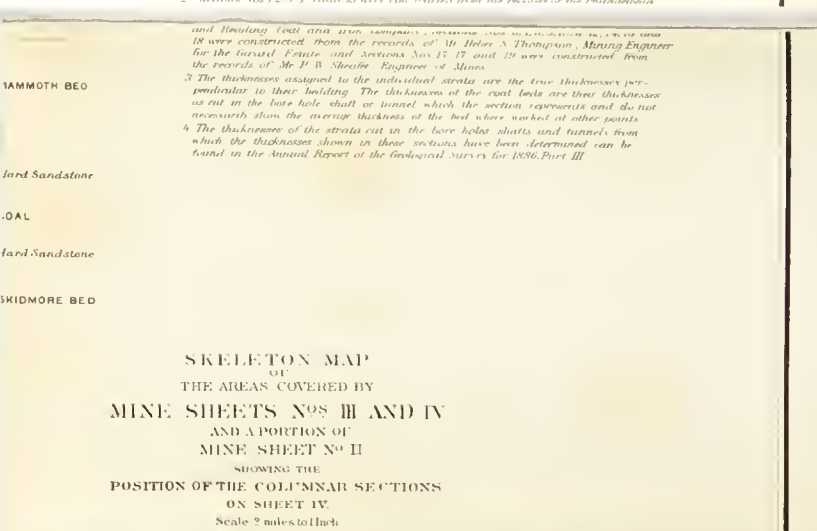
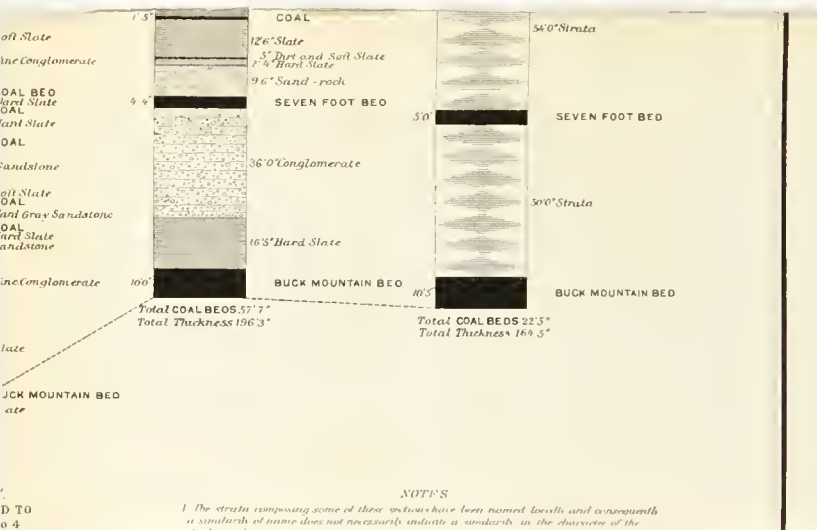
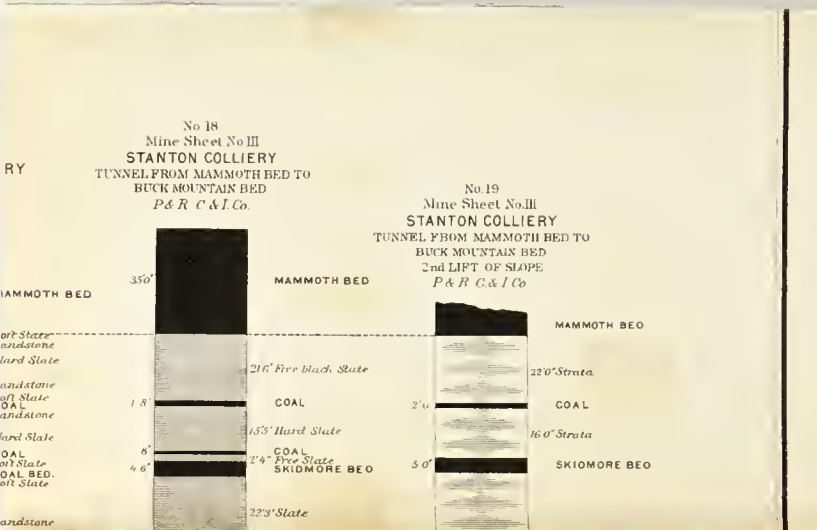
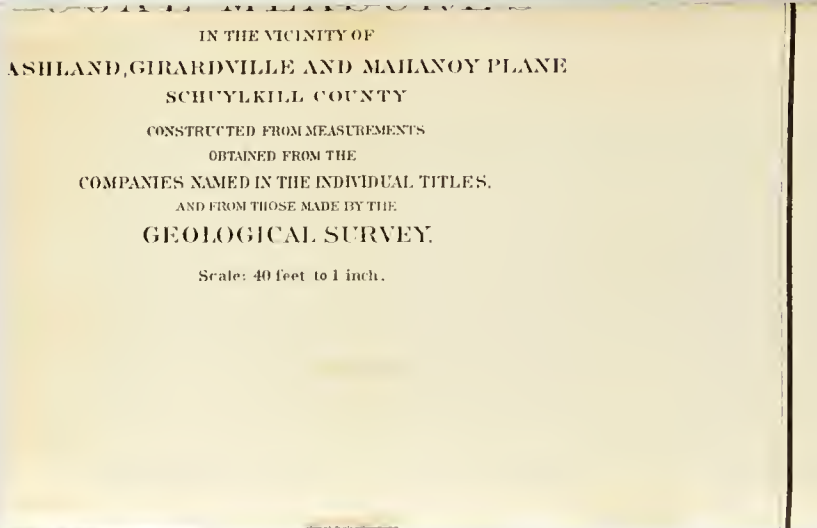
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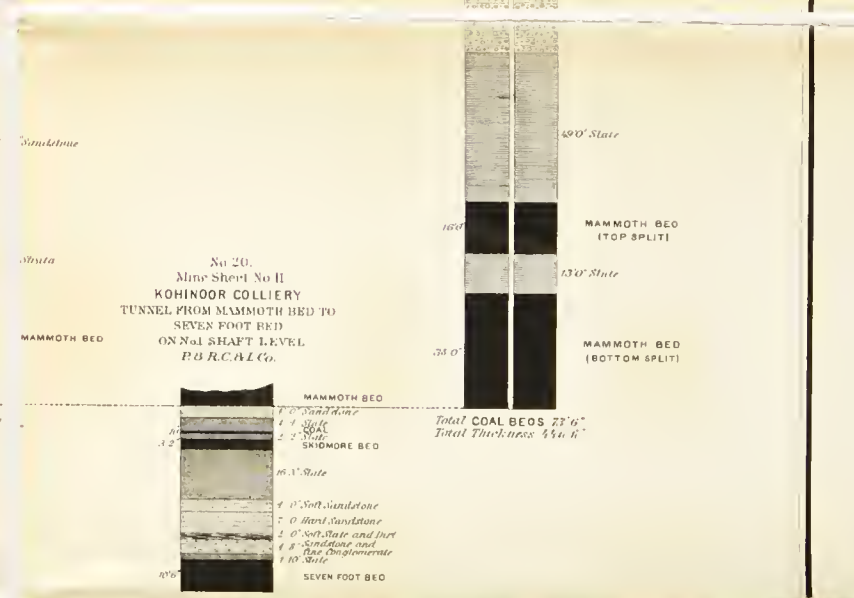
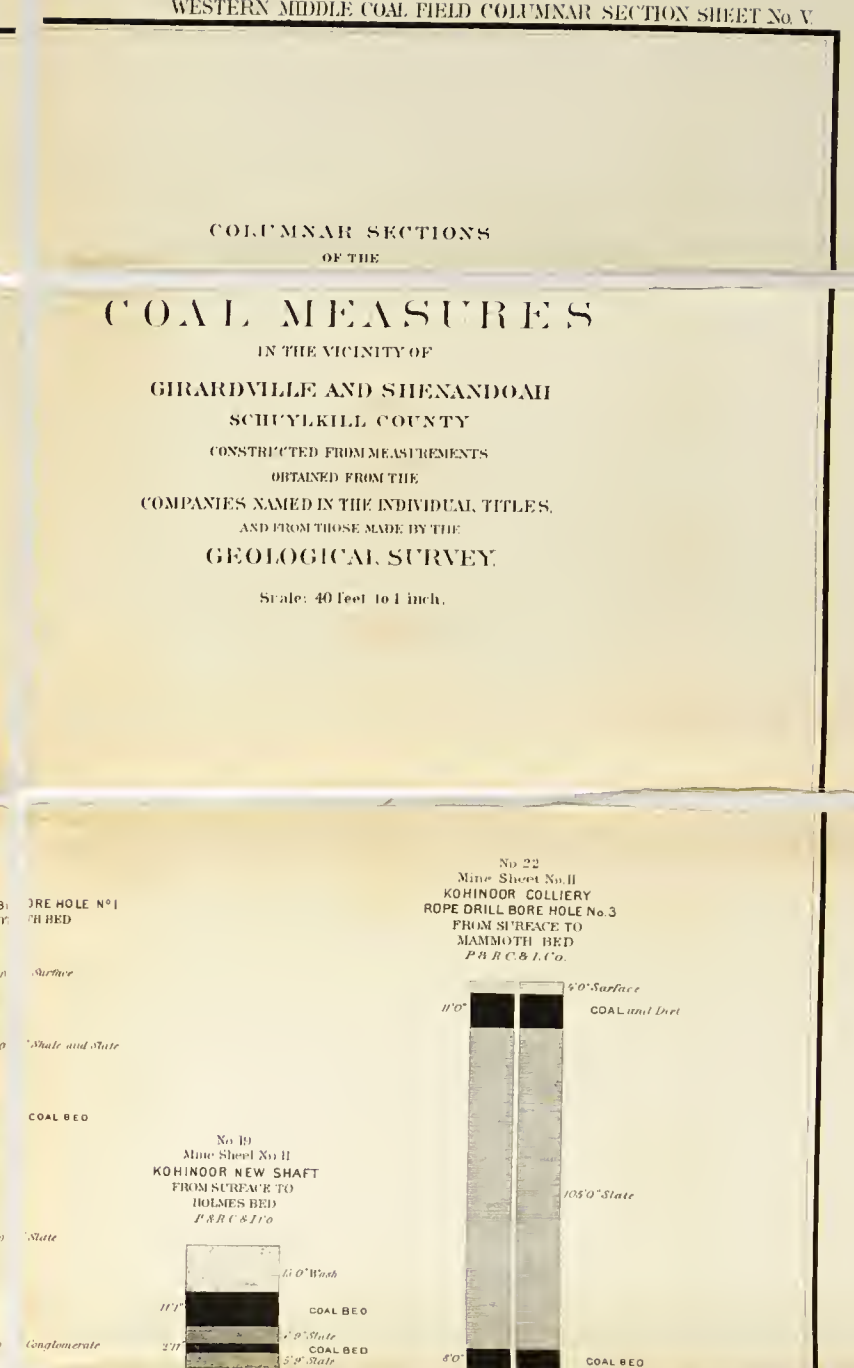


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Figure 1 consists of two scatter plots. The top plot shows a positive correlation between the number of children and the number of children in the household. The bottom plot shows a negative correlation between the number of children and the number of children in the household.

[illegible]

5

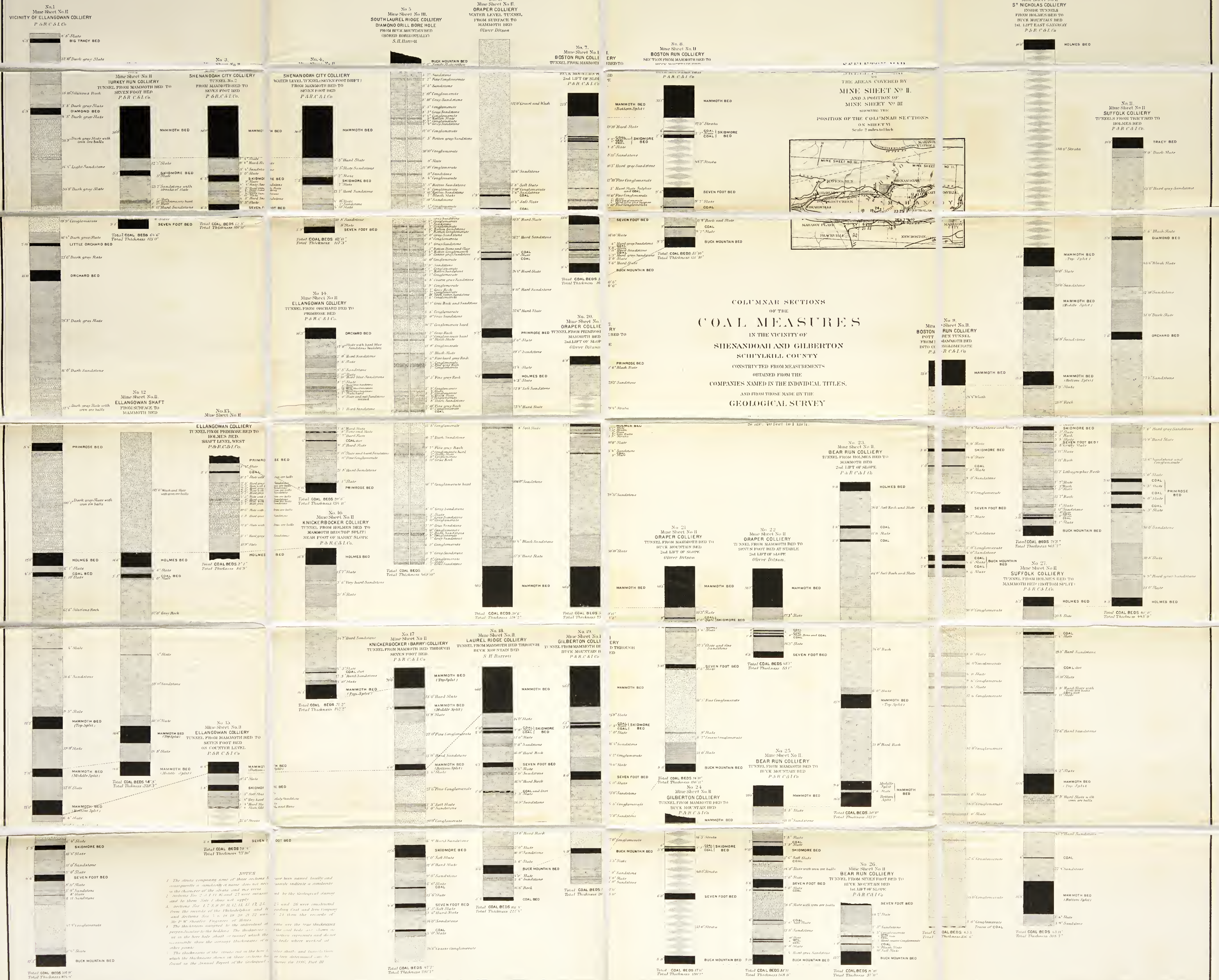


ATLAS WESTERN WOODS ANTHROPOLOGICAL FIELD PART 2 COLUMNAR SECTION SHEET NO. 11. 10
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Shell



WILSON WEATHER COOL AIRMOUNT FIELD.

PART 2

COLUMBIAN

SECTION SHEET NO. 11.

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1

SHOWING THE POSITION OF EASTERN MIDDLE COAL FIELD MINE SHEETS NOS. IIa, VIIIa, IX, X, XI, XII, XIIa, XIII, XIV AND XIVa

GENERAL MAP
OF THE
ANTHRACITE COAL FIELDS
OF
PENNSYLVANIA
AND
ADJOINING COUNTIES.

FRANK A. HILL, GEOLOGIST IN CHARGE
1889.

- LEGEND
- Coal Measures No XIII and
 - Pottsville Conglomerate No XII
 - Top of Mauch Chunk Red Shale No XI

